



# Training Slides

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## Environmental Management System (EMS)

EMS Basics  
EMS in Daily Operations

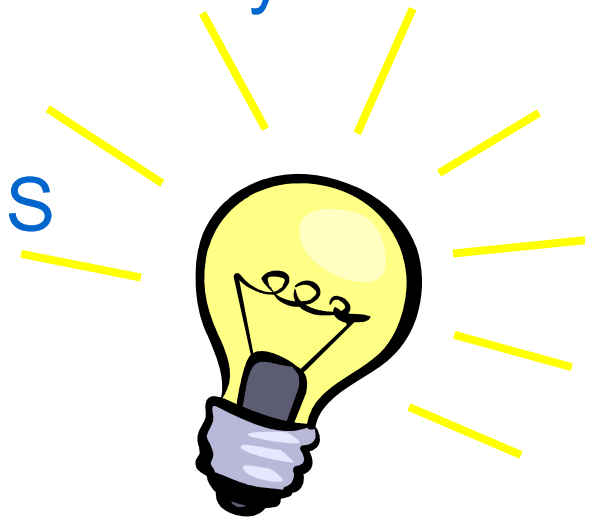


# Objectives of this training

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1. Become familiar with our EMS.
2. Provide general understanding of EMS principles.
3. Create a sense of individual responsibility for the success of our EMS.
4. Samples of implementing the EMS in daily life (at work or at home).



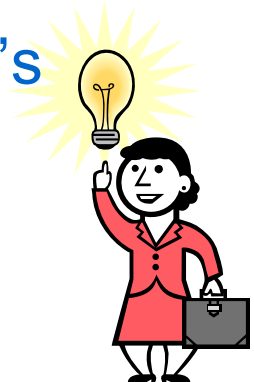


# What is an EMS?

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- A framework to determine the impacts of our organization's activities, products and services on the environment, and how to mitigate them.
- A tool to help our organization stay in conformance with legislated and voluntary environmental requirements, and to continuously improve its overall environmental performance.
- A garrison Commander's program, but everyone's involvement.





# Benefits of an EMS

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- Sustains mission readiness.
- Ensures employees know and follow procedures, which will reduce or avoid environmental impacts.
- Improves environmental performance, reduces costs, and enhances compliance with Final Governing Standards, Army Regulations, and Host Nation Regulations.
- Proactive vs. reactive → decrease in environmental risk
- Stronger working relationship with community and regulators – improved public image.



# EMS shall be implemented fence line to fence line

to include all our:

Soldiers

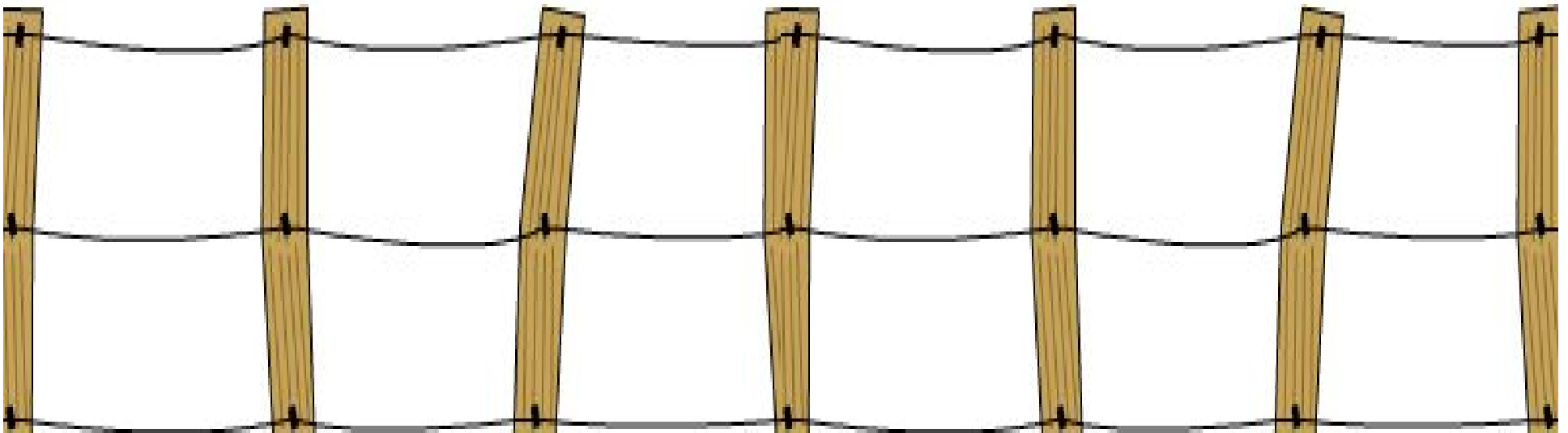
Tenants

Families

Activities

Contractors

Products and Services





# Reasons for EMS in the U.S. Army

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## Executive Order 13423

### **“Strengthening Federal Environmental, Energy, and Transportation Management”**

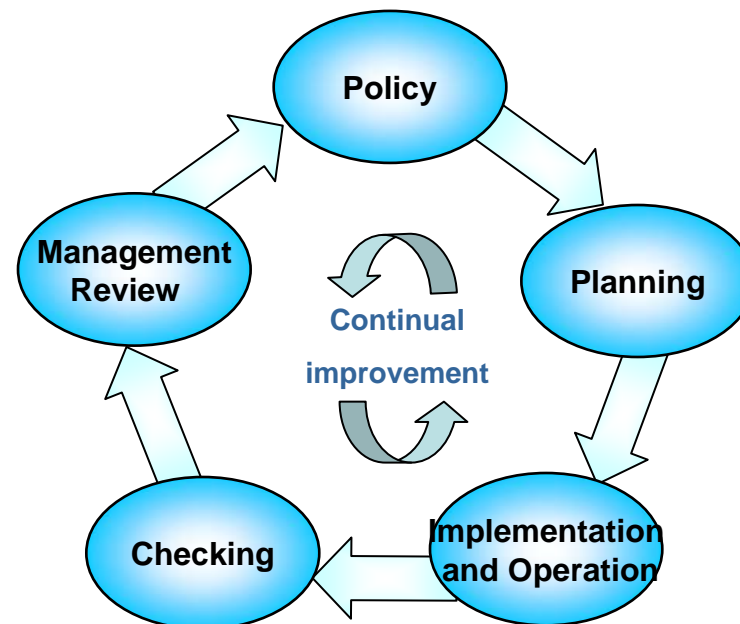
signed by President George W. Bush in Jan 2007,  
requires all U.S. government organizations to  
implement an EMS



# ISO 14001



- Army leadership has decided to use the ISO 14001 standard as a model for developing and implementation an EMS.
- The ISO 14001 provides general guidance for implementing an EMS.
- Major components:





# Environmental Aspects / Impacts

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## Definitions

- ▶ An environmental aspect is an element of an organization's activities, products, or services that can interact with the environment. A „significant environmental aspect“ is an environmental aspect that has or can have a significant environmental impact.
- ▶ An environmental impact is any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organization's activities, products, or services.



# Our Significant Environmental Aspects

- Asbestos containing material (construction material and indoor installation)
- Air emissions (dust, ozone depleting substances)
- Hazardous material expired (storage, usage)
- Spills and leaks of hazardous material (e.g. POL-Spills)



# Environmental Aspects and Impacts

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## Environmental Aspect

## Environmental Impact

Asbestos	→	Indoor air pollution
Hazardous material expired	→	Generation of hazardous waste
Spills with hazardous material	→	Contamination of soil, ground- and surfacewater
Air emissions (ozone depleting substances)	→	Ozone layer depletion



# Objectives & Targets

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An EMS requires an organization to establish and maintain measurable **objectives and targets** for the identified significant aspects in order to **reduce environmental impacts.**





# Example Objective

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## Example POL-Spills

Objective

=> Reduce POL-Spills

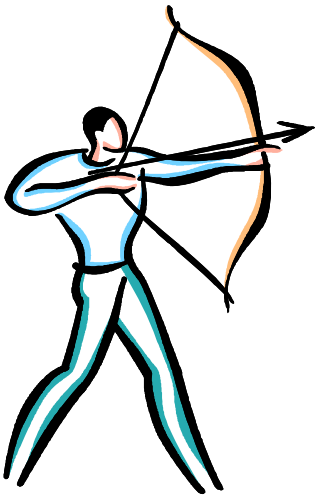
Method

=> Use a database  
(„Spill Database“)

=> Analyze data

=> Set quantitative targets

=> Train employees





# Implementation and Operation

## Example POL-Spills

EMS in daily operations

- ▶ Training (Spill Prevention Training)
- ▶ Records & documentation (Spill Database)
- ▶ Policies & procedures (Environmental SOP's for Tenant Units / Activities)
- ▶ Plans & environmental programs (Spill Prevention, Control, and Countermeasures Plan)
- ▶ Emergency response procedures (Red Plan)



# YOUR

# Roles & Responsibilities

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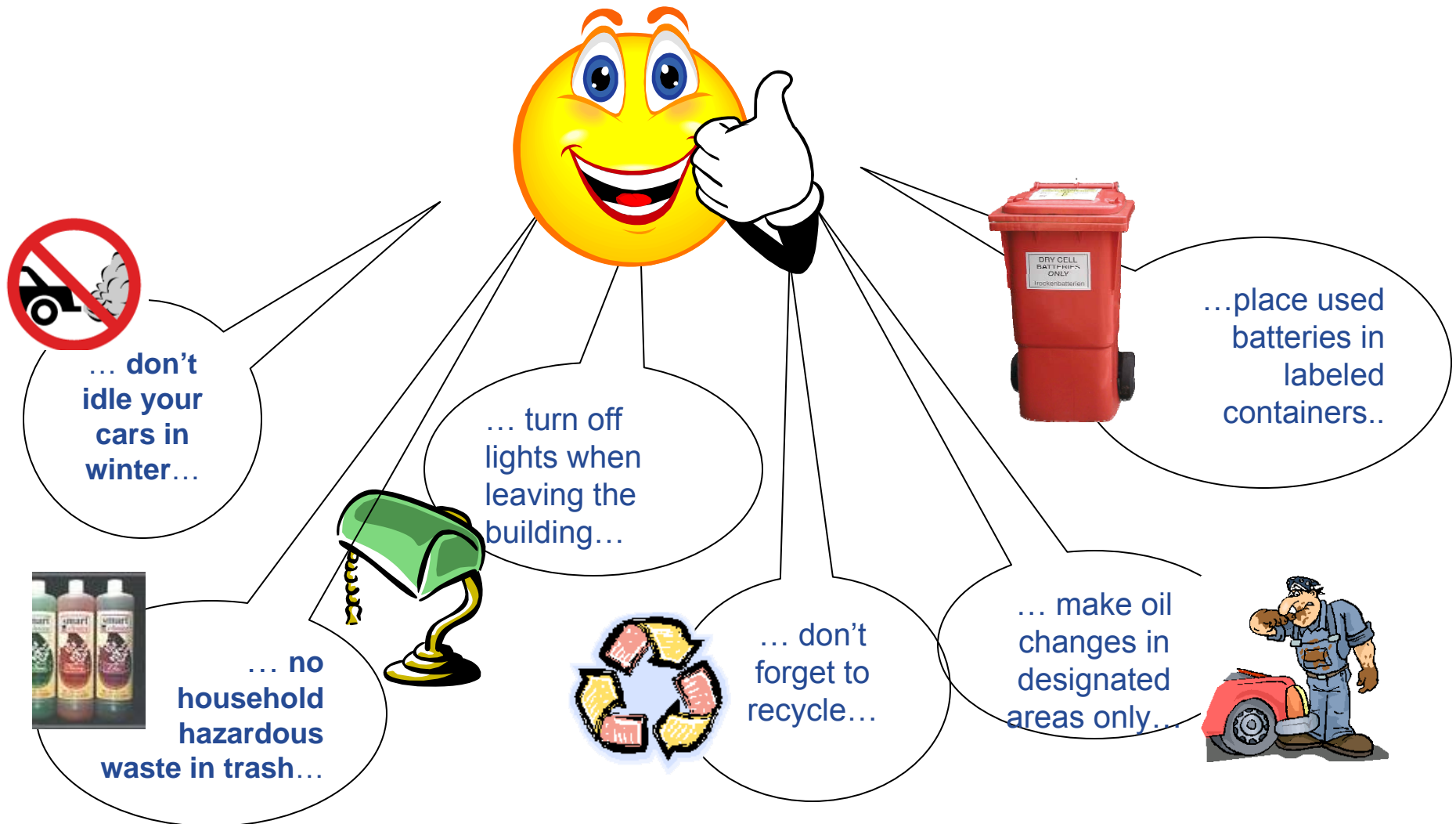


## **Know Emergency Response Procedures**

- Know what to do in the event of an emergency and how to respond to a spill
- If a spill occurs:
  - Report the spill to the Fire Department
  - Determine safe actions
  - Stop the leak
  - Control and contain
- **Report problems concerning**
  - EMS implementation
  - Environmental compliance
  - Process improvements and safety issues



# More Examples for Environmental Improvement





# Point of Contact:

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